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**Sent:** Thursday, October 04, 2012 1:11 PM  
**To:** Hanchett, James (DPH)  
**Subject:** Applications in Optimizing GC Flow Path Inertness

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## Applications in Optimizing GC Flow Path Inertness

**Flow path inertness isn't just vital to your analysis, it is also at the cutting edge of GC.** As the GC industry's premier measurement company, Agilent is uniquely positioned to ensure the inertness of the surfaces your sample touches, so you can achieve the parts-per-billion – or parts-per-trillion – detection levels for your most demanding analyses. Learn more in these application notes featuring the benefits of an ultra inert flow path in the food, forensic and environmental industries.

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### **Agilent J&W DB-624 Ultra Inert Capillary Column's Utility in Screening Distilled Spirits by GC/MS Static Headspace**

Small batch distillation of spirits is becoming an increasingly popular means of producing premium spirits that are finding a ready market for consumers with discriminating tastes. Profiling some of the flavor elements found in these beverages can help track completion of the fermentation process, assess batch quality or evaluate the impact new or traditional ingredients have on the bouquet of flavors. The inertness and selectivity of Agilent J&W DB-624UI make distilled spirit profiling by static headspace GC straightforward, with clear differences in fusel oils and related fermentation products between orange-flavored cognac and bourbon samples.

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### **Analysis of Pesticides in Food by GC/MS/MS using Agilent Ultra Inert Liners with Wool**

With efficient deactivation on glass wool, the Ultra Inert liners with wool provide excellent inertness, homogeneous sample mixing and evaporation, and maximum column and detector protection for reliable pesticides analysis in food by GC/MS/MS.

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### **Ultra Inert Wool Liner Performance Using an Agilent J&W DB-35ms Ultra Inert Column**

Liners with wool have traditionally been avoided for pesticide analysis due to high levels of activity from the wool. Using an Agilent Ultra Inert Wool Liner coupled with an Agilent J&W DB-35ms Ultra Inert column provides effective organophosphorus pesticides analysis as shown in an olive oil matrix with and without analyte protectant.

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### **Analysis of Drugs of Abuse by GC/MS using Agilent Ultra Inert Inlet Liners with Wool**

With efficient deactivation on glass wool, Agilent Ultra Inert liners with wool provide excellent inertness, homogeneous sample mixing and evaporation, non-volatile residue trapping, and column and detector protection for drugs of abuse screening.

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### **Separation of Oxymorphone and Oxycodone Hydroxyl-imino Tri-methyl Silyl Derivatives Using an Agilent Fast Toxicology Analyzer and an Agilent J&W DB-35ms Ultra Inert Capillary GC Column**

Oxymorphone and oxycodeine are semi synthetic opioids used primarily to manage moderate to severe pain. Unfortunately, newer dosage forms are finding their way into the hands of abusers with the potential for lethal overdose as a result. A successful chromatographic separation of oxymorphone and oxycodeine hydroxyl-imino tri-methyl silyl derivatives is demonstrated on an Agilent J&W DB-35ms Ultra Inert capillary GC column.

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### **Fast and Comprehensive Doping Agent Screening in Urine by Triple Quadrupole GC/MS**

A rapid method was developed on the Agilent 7000 Series Triple Quadrupole GC/MS system to screen for more than 150 doping agents in seven classes of substances, at or below WADA MRPLs. A short capillary column, rapid scan speed and hydrogen as carrier gas enable a run time of less than eight minutes.

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### **Evaluation of the Ultra Inert Liner Deactivation for Active Compounds Analysis by GC**

Endrin and DDT breakdown and active semivolatiles tests were used for the Ultra Inert liner deactivation performance evaluation. The results indicate that the Ultra Inert deactivated liners provide superior inertness for analysis of active compounds.

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### **Sub ug/L Level Analysis of Chlorinated Pesticide and Herbicide Analysis in Water by GC/u ECD using Agilent J&W DB35ms Ultra Inert GC Columns**

Chlorinated pesticides and herbicides in water samples are successfully extracted with Agilent SPEC C18AR liquid-solid extraction (LSE) disks. A dual column GC/uECD approach was used employing Agilent J&W DB-35ms Ultra Inert primary analysis and DB-XLB confirmatory analysis columns. This approach provided consistent and sensitive analysis for the chlorinated compounds at and below established maximum contaminant level concentrations.

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